AMENDMENTS TO THE CLAIMS

- 1. (Previously presented) A polyol prepolymer chain extender for a silicone modified polyurea comprising the reaction product of:
 - at least one amine; and
- at least one branched epoxy functional silicone containing a phenyl group, wherein said at least one amine is present in a molar excess relative to said at least one branched epoxy functional silicone containing a phenyl group.
- 2. (Original) The polyol prepolymer chain extender of claim 1 wherein said at least one amine is selected from the group consisting of primary aliphatic amines, primary cyclo-aliphatic, secondary aliphatic amines, primary aromatic amines, and secondary aromatic amines, and mixtures thereof.

3. (Canceled)

- 4. (Previously presented) The polyol prepolymer chain extender of claim 1 wherein said at least one amine is present in the range of from about 20 to about 95 parts by weight, based on 100 parts by weight of the total polyol prepolymer chain extender.
- 5. (Previously presented) The polyol prepolymer chain extender of claim 1 wherein said at least one epoxy functional silicone is present in the range of from about 5 to about 80 parts by weight, based on 100 parts by weight of the total polyol prepolymer chain extender.

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6. (Currently amended) The polyol prepolymer chain extender of claim 1 wherein said epoxy functional silicone is from about 4 to about 38 parts by weight of silicone modified epoxy resin, based on 100 parts by weight of the total polyol prepolymer chain extender, and said at least one amine is a combination of from about 20 to about 75 parts by weight of a

$$x = 5.6$$

polyoxypropylenediamine that has a formula:

and from about 25 to about 80 parts by weight of a diethyltoluenediamine (DETDA), based on 100 parts by weight of the total polyol prepolymer chain extender.

7. (Currently amended) The polyol prepolymer chain extender of claim 1 wherein said epoxy functional silicone is from about 4 to about 38 parts by weight of silicone modified epoxy resin, based on 100 parts by weight of the total polyol prepolymer chain extender, and said at least one amine is a combination of from about 20 to about 75 parts by weight of a polyoxypropylenediamine that has a formula:

$$H_2N$$
— CH — CH_2 — CH_2 — CH_3 — CH_3 — CH_3 — CH_3 — CH_3 — CH_3

$$x = 5.6$$

and from about 25 to about 80 parts by weight of a dimethylthiotoluene diamine (DMTDA), based on 100 parts by weight of the total polyol prepolymer chain extender.

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8. (Currently amended) The polyol prepolymer chain extender of claim 1 wherein said epoxy functional silicone is from about 4 to about 38 parts by weight of silicone modified epoxy resin, based on 100 parts by weight of the total polyol prepolymer chain extender, and said at least

x = 5.6

one amine is a combination of from about 20 to about 70 parts by weight of a polyoxypropylenediamine that has a formula:

- 9. (Canceled)
- 10. (Withdrawn) A silicone modified polyurea comprising:
- a B-component which includes at least one polyol prepolymer chain extender which comprises:
 - at least one amine;
 - at least one epoxy functional silicone; and
 - an A-component which comprises at least one polyisocyanate.
- The silicone modified polyurea of claim 10 wherein said at least one 11. (Withdrawn) amine is selected from the group consisting of primary aliphatic amines, primary cyclo-aliphatic, secondary aliphatic amines, primary aromatic amines, and secondary aromatic amines, or a combination of said amines.

12. (Withdrawn) The polyol prepolymer chain extender of claim 1 wherein said epoxy functional silicone is a silicone modified epoxy resin that has the general formula:

13. (Withdrawn) The silicone modified polyurea of claim 10 wherein said polyisocyanate is selected from the group consisting of

aliphatic isocyanates selected from the group consisting of hexamethylene diisocyanate (HMDI); a bifunctional monomer of tetraalkyl xylene diisocyanate; cyclohexane diisocyanate; 1,12-dodecane diisocyanate; 1,4-tetramethylene diisocyanate; isophorone diisocyanate (IPDI); and dicyclohexylmethane diisocyanate;

aromatic isocyanates selected from the group consisting of m-phenylene diisocyanate; p-phenylene diisocyanate; polymethylene polyphenylene diisocyanate; 2,4-toluene diisocyanate; 2,6-toluene diisocyanate; dianisidine diisocyanate; bitolylene diisocyanate; naphthalene-1,4-diisocyanate; and diphenylene 4,4'-diisocyanate; and

aliphatic/aromatic diisocyanates, selected from the group consisting of xylylene-1,3-diisocyanate; bis(4-isocyanatophenyl)methane; bis(3-methyl-4-isocyanatophenyl)methane; and 4,4'-diphenylpropane diisocyanate; tetramethyl xylene diisocyanate (TMXDI); and mixtures thereof.

- 14. (Withdrawn) The silicone modified polyurea of claim 10 wherein said B-component further comprises UV stabilizers.
- 15. (Withdrawn) The silicone modified polyurea of claim 10 wherein said B-component further comprises color pigments.
- 16. (Withdrawn) The silicone modified polyurea of claim 10 wherein said B-component further comprises silane coupling agents.
- 17. (Withdrawn) The silicone modified polyurea of claim 10 wherein said B-component further comprises fire retardants.
- 18. (Previously presented) A method of making a polyol prepolymer chain extender for a silicone modified polyurea comprising:

combining an excess of at least one amine selected from the group consisting of primary aliphatic amines, primary cyclo-aliphatic, secondary aliphatic amines, primary aromatic amines, and

secondary aromatic amines, and mixtures thereof, with at least one branched epoxy functional silicone containing a phenyl group to form a solution; and

reacting said solution to form a polyol prepolymer chain extender, wherein said reacting comprises heating said solution at a temperature in the range of from 130°F, to 210°F, for a time period of from 1 hour to 24 hours.

- 19. (Original) The method of claim 18 wherein said epoxy functional silicone is a silicone modified epoxy resin.
- 20. (Withdrawn) A method of making a silicone modified polyurea comprising: combining an adduct of at least one amine selected from the group consisting of primary aliphatic amines, primary cyclo-aliphatic, secondary aliphatic amines, primary aromatic amines, and secondary aromatic amines, and mixtures thereof, with at least one epoxy functional silicone to form a solution;

reacting said solution to form a polyol prepolymer chain extender, wherein said reacting comprises heating said solution at a temperature in the range of from 130°F, to 210°F, for a time period of from 1 hour to 24 hours; and

mixing said polyol prepolymer chain extender with at least one polyisocyanate to form a silicone modified polyurea.

- 21. (Withdrawn) The method of claim 20 wherein said mixing is performed by a pressurizable spray apparatus.
- 22. (Withdrawn) A method of applying a silicone modified polyurea to a substrate, comprising:

combining an adduct of at least one amine selected from the group consisting of primary aliphatic amines, primary cyclo-aliphatic, secondary aliphatic amines, primary aromatic amines, and secondary aromatic amines, and mixtures thereof, with at least one epoxy functional silicone to form a solution:

reacting said solution to form a polyol prepolymer chain extender, wherein said reacting comprises heating said solution at a temperature in the range of from 130°F. to 210°F. for a time period sufficient to substantially react all of said polyol prepolymer chain extender;

cooling said polyol prepolymer chain extender, and

applying said polyol prepolymer chain extender and said at least one polyisocyanate simultaneous to said substrate to form a silicone modified polyurea on said substrate.

- 23. (Withdrawn) The method of claim 22 wherein said heating is in a temperature range of from 130°F. to 210°F.
- 24. (Withdrawn) The method of claim 22 wherein said substrate is prepared prior to application of said silicone modified polyurea.
 - 25. (Canceled)